COMPUTATIONAL MATHEMATICS AND MATHEMATICAL PHYSICS

Cover-to-cover translation of
Zhurnal vychislitel'noi matematiki i matematicheskoi fiziki

LIST OF CONTENTS AND AUTHOR INDEX
VOLUME 34, 1994

PERGAMON

COMPUTATIONAL MATHEMATICS AND MATHEMATICAL PHYSICS

ZHURNAL VYCHISLITEL'NOI MATEMATIKI I MATEMATICHESKOI FIZIKI

Chief Editor: A. A. DORODNITSYN†

Deputy Chief Editor: M. K. KERIMOV

EDITORIAL BOARD

A. A. ABRAMOV
A. A. ARSEN'EV
N. S. BAKHVALOV
O. M. BELOTSERKOVSKII
V. G. KARMANOV
V. M. KUROCHKIN
N. N. MOISEYEV
YU. S. OSIPOV
A. A. SAMARSKII
YU. D. SHMYGLEVSKII
A. O. SLISENKO
A. G. SVESHNIKOV
V. V. VOEVODIN
YU. I. ZHURAVLEV

Cover-to-cover translation of *Zhurnal vychislitel'noi matematiki i matematicheskoi fiziki*

Russian Original Copyright Nauka, 90 Profsoyuznaya ul., Moscow 117864

12 Issues per annum

Scientific Translation Editor: R. C. GLASS, M.A., M.Sc., City University, London

Translator: R. LOSHAK

Publishing and Advertising Offices:
Elsevier Science Ltd, The Boulevard, Langford Lane, Kidlington, Oxford OX5 1GB, U.K.
Tel. (01865) 843000. Fax. (01865) 843010.
Elsevier Science Inc., 660 White Plains Road, Tarrytown, NY 10591-5153, U.S.A.

Subscription Rates

Annual Institutional Subscription Rates 1995: *North, Central and South America* US$1416.00, *Rest of the World* £950.00. *Sterling prices exclude VAT. Non-VAT registered customers in the European Community will be charged the appropriate VAT in addition to the price listed. Prices include postage and insurance and are subject to change without notice.*

Subscription enquiries from customers in America should be sent to: Elsevier Science Inc., 660 White Plains Road, Tarrytown, NY 10591-5153, U.S.A., and for the remainder of the world to: Elsevier Science Ltd, The Boulevard, Langford Lane, Kidlington, Oxford OX5 1GB, U.K.

Second class postage paid at NEWARK, NJ. Postmaster send address corrections to *Computational Mathematics and Mathematical Physics*, c/o Elsevier Science Inc., 660 White Plains Road, Tarrytown, NY 10591-5153, U.S.A.

Microform Subscriptions and Back Issues

Back issues of all previously published volumes, both in hard copy and on microform, are available direct from Elsevier Science offices (Oxford, New York).

Copyright © 1995 Elsevier Science Ltd

No part of this publication may be reproduced, stored in a retrieval system or transmitted in any form or by any means, electronic, electrostatic, magnetic tape, mechanical, photocopying, recording or otherwise, without permission in writing from the copyright holder.

Photocopying information for users in the U.S.A. The Item-fee Code for this publication indicates that authorization to photocopy items for internal or personal use is granted by the copyright holder for libraries and other users registered with the Copyright Clearance Center (CCC) Transactional Reporting Service provided the stated fee for copying, beyond that permitted by Section 107 or 108 of the United States Copyright Law, is paid. The appropriate remittance of $24.00 per copy per article is paid directly to the Copyright Clearance Center Inc., 222 Rosewood Drive, Danvers, MA 01923, U.S.A.

Permission for other use. The copyright owner's consent does not extend to copying for general distribution, for promotion, for creating new works, or for resale. Specific written permission must be obtained from the publisher for such copying.

The Item-Fee Code for this publication is: 0965-5425/94 $24.00 + .00

Disclaimer. Whilst every effort is made by the publishers and editorial board to see that no inaccurate or misleading data, opinion or statement appears in this journal, they wish to make it clear that the data and opinions appearing in the articles herein are the sole responsibility of the contributor or advertiser concerned. Accordingly, the publishers, the editorial board, editors and translators and their respective employees, officers and agents accept no responsibility or liability whatsoever for the consequences of any such inaccurate or misleading data, opinion or statement.

The paper used in this publication meets the minimum requirements of American National Standard for Information Sciences—Permanence of Paper for Printed Library Materials, ANSI Z39.48-1984.

VOLUME CONTENTS

VOL. 34, NO. 1 — 1994

I. P. Ryazantseva	1	Some continuous regularization methods for monotone equations
A. Z. Ishmukhametov	9	Conditions of stability and approximation in the optimal control of hyperbolic systems
M. R. Davidson	23	The conditional stability of extreme points of a polyhedral set
I. Kh. Sigal	33	Algorithms for solving the two-criterion large-scale travelling salesman problem
S. V. Kurochkin	45	Singular boundary-value problems for linear Hamiltonian systems
V. N. Plotnikov, Yu. Yu. Radtsig and S. I. Eminov	53	Theory of the integral equation of a narrow rectilinear slot
A. V. Krasnozhon and Yu. D. Pletner	63	The behaviour of the solution of the Cauchy problem for the gravitational-gyroscopic wave equation
N. Ch. Krutitskaya and P. A. Krutitskii	71	The electric current in a magnetized semiconducting plate with earthed side walls
S. S. Makhanov and A. Yu. Semenov	85	A stable non-negative numerical method for calculating the flow of a liquid in an open channel
P. V. Plotnikov and L. V. Shurshalov	97	The interaction of a cloud of interplanetary dust with the atmosphere
V. I. Zhuk	107	Bifurcation of the upper branch of the neutral curve for the boundary layer on a plate in a compressible flow
		Short Communications
A. S. Leonov	121	Some a posteriori termination rules for the iterative solution of linear ill-posed problems
V. B. Glasko, Yu. V. Glasko, K. V. Klyuyev and M. A. Osipenko	127	Automatic control of the cementation of alloyed materials

VOL. 34, NO. 2 — 1994

S. L. Blyumin and S. P. Milovidov	133	Investigation and solution of matrix equations over associative rings
T. Zhanlav and I. V. Puzynin	143	The combination of the establishment method and Newton's method for solving non-linear differential problems
H. Leszczyński	151	Discrete approximations to the Cauchy problem for hyperbolic differential-functional systems in the Schauder canonic form
N. A. Strelkov	165	Local approximation of projection-difference methods
B. D. Abramov	175	Some models of multigroup approximation in nuclear reactor theory
A. V. Latyshev	193	The solution of boundary-value problems for the equations of radiation transfer
M. I. Gradoboyev and V. A. Rykov	205	A conservative method for the numerical solution of the kinetic equation at low Knudsen numbers
R. P. Fedorenko	223	Some problems and approximate methods of computational mechanics
V. N. Koterov and V. P. Pashchenko	243	Calculation of axisymmetric stationary swirling motion of a heavy liquid with free surfaces

Short Communications

H. D. IKRAMOV 253 On the unitary similarity of Hermitian Toeplitz matrices to real $(T + H)$-matrices

B. A. MARKOV, A. D. POYEZD and S. A. YAKUNIN 257 An algorithm for solving Poisson's equation in an unbounded domain

A. V. KRASNOZHON, YU. D. PLETNER and M. A. SOLOV'YEV 263 The propagation of a quasifront in a stratified rotating fluid

S. A. SHISHKIN 267 The extraction of the square roots of symmetric sign-indefinite matrices. Polar decomposition version.

VOL. 34, NO. 3 1994

SH. I. GALIYEV 271 The directions of decrease for minmaxmin problems

A. F. IZMAILOV and A. A. TRET'YAKOV 287 The method of gradient descent for minimizing non-convex functions

M. V. BULATOV 301 Transformations of differential-algebraic systems of equations

V. A. GALAKTIONOV and S. A. POSASHKOV 313 Exact solutions and invariant spaces for non-linear gradient diffusion equations

YU. CHEGIS RAIM 323 A scheme of increased order of accuracy in the case of cylindrical and spherical symmetry

N. S. BAKHVALOV and M. E. EGLIT 333 An estimate of the error of averaging the dynamics of small perturbations of very inhomogeneous mixtures

M. I. GRADOBOYEV, I. N. LARINA, V. A. RYKOV and YE. M. SHAKHOV 351 Investigation of the unsteady vortex motions of a viscous incompressible fluid in the cavity of a rotating body

V. V. SVETSOV 365 An economical numerical method for one-dimensional problems of radiative gas dynamics

V. N. GOLUBKIN and V. V. NEGODA 377 Optimizing hypersonic wings

V. I. DONSKOI 389 Pseudo-Boolean optimization with a disjunctive constraint

Short Communications

KH. D. IKRAMOV 399 Describing normal Toeplitz matrices

B. P. PUGACHOV 405 Regarding a method of improving the conditionality of a system of linear equations

A. B. BAKUSHINSKII 407 Note on the regularizing properties of methods of conjugate directions

YU. V. SHERETOV 409 A theorem on the dissipation of energy and exact solutions of a system of quasihydrodynamic equations

V. L. KALITVYANSKII 417 Perturbation theory for the Sturm–Liouville problem with variable coefficients

VOL. 34, NO. 4 1994

I. YA. TSURKIS 421 Fredholm's alternative for quasidiagonal matrices

F. P. VASIL'YEV and A. NEDIČ 431 A version of the regularized gradient projection method

YU. G. BULYCHEV 441 The numerical-analytic integration of differential equations by generalized interpolation

N. N. MOISEYEV 453 The biota as a regulator and the sustainability problem

A. B. PIUNOVSKII 463 The problem of convex programming with linear constraints

G. G. Malinetskii, A. B. Potapov and G. Z. Tsertsvadze	471	Some qualitative features of diffusion-induced chaos
S. A. Kashchenko	479	The construction of normalized systems for investigating the dynamics of hybrid and hyperbolic equations
M. Yu. Zhukov	491	The separation of infinite-component mixtures by an electric field
G. V. Dubrovskii and V. Yu. Kontorin	499	Formulae connecting the WKB solutions, the S-scattering matrix and resonances
Yu. S. Kosolapov, Ye. Yu. Protsenko and A. V. Chirikhin	511	A method of calculating steady and unsteady two-dimensional nozzle flows of a spontaneously condensing vapour
G. K. Kamenev	521	Analysis of an algorithm for approximating convex bodies
		Short Communications
N. V. Balashevich, R. Gabasov and F. M. Kirillova	529	A controller for the sliding optimization of dynamic control systems
V. B. Pavlov and O. Ye. Rodionova	535	The numerical solution of systems of linear ordinary differential equations with constant coefficients
V. A. Lyul'ka	541	The hydrodynamic resistance of a periodic lattice
D. B. Silin and N. G. Trin'ko	545	A modification of Graham's algorithm for the convexification of a positive-uniform function
S. A. Shishkin	549	Singular filtering of matrix and grid operators. Error estimates
	553	Erratum

VOL. 34, NO. 5 1994

Yu. G. Bulychev	555	A mathematical technique for the N-fold differentiation of functions with a finite spectrum and its applications
R. Gabasov, F. M. Kirillova and Ye. A. Kostina	569	Piecewise-linear functions of several variables; their modelling, local behaviour and extrema
Yu. G. Yevtushenko and V. G. Zhadan	579	Barrier-projective methods for non-linear programming
A. A. Dosiyev	591	A block-grid method of increased accuracy for solving Dirichlet's problem for Laplace's equation on polygons
Yu. M. Layevskii	605	The decomposition of domains for parabolic problems with discontinuous solutions and the penalty method
G. I. Shishkin	621	A grid approximation of the method of additive separation of singularities for a singularly perturbed equation of parabolic type
N. A. Dar'in	639	The general algebra of symmetry operators of the equations of gas dynamics in Euler and Lagrange variables
V. G. Golushkov and L. V. Maslovskaya	647	The mixed finite element method in problems of the theory of shells
		Short Communications
Yu. A. Alpin*	665	The influence of the position of the zeros in a non-negative matrix on the convergence of the algorithm for computing its Perron root
A. A. Abramov and L. F. Yukhno	671	Determining the number of eigenvalues of a spectral problem
V. M. Belov, T. A. Rybal'chenko and V. A. Sukhanov	679	Gradient methods for the numerical solution of the problem of the variational calculus in the classical formulation
V. R. Fazylov	687	Finding a minimax with specified accuracy

*Author's name omitted from paper: appears incorrectly as M. Yu. Zhukov (translation only).

VOL. 34, NO. 6 1994

A. I. ZHDANOV 693 Direct recurrence algorithms for solving the linear equations of the method of least squares

S. V. KARTYSHOV 703 Cubic convergence of the inverse iteration method for solving the non-linear spectral problem

V. A. LYUL'KA and A. V. ROMANKO 713 Constructing interpolation curves by the grid method

A. F. IZMAILOV 723 Optimality conditions for degenerate extremum problems with inequality-type constraints

O. A. YEMETS 737 The optimization of linear and convex functions on a Euclidean combinatorial set of polypermutations

P. P. MATUS 749 Difference schemes on composite grids for hyperbolic equations

V. M. KOVENYA and A. S. LEBEDEV 763 Modifications of the splitting method for constructing economical difference schemes

N. A. KUZ'MICHEVA and A. P. SMIRNOV 775 A numerical-analytic method for solving Landau's two-dimensional kinetic equation in self-similar variables

N. V. NIKITIN 785 A spectral finite-difference method of calculating turbulent flows of an incompressible fluid in pipes and channels

V. B. GLASKO and I. N. OSKOLKOV 799 Regularization of the thermal flaw detection problem

Short Communications

K. V. YEMEL'YANOV 809 Applying optimal difference grids to problems with singular perturbations

A. A. BOGOLYUBSKAYA and S. I. SERDYUKOVA 815 The construction of explicit C-stable schemes of maximum odd order of accuracy

YU. D. SHMYGLEVSKII 827 Vortical formations in a viscous fluid

VOL. 34, NO. 7 1994

V. N. USHAKOV and A. P. KHRIPUNOV 833 The construction of approximate integral funnels of differential inclusions

I. S. LITVINCHEV 843 The use of lower bounds in minimization by the interior-point method

V. V. BARANOV 849 Optimal dynamic recognition and decision-making

S. A. ABRAMOV 863 D'Alembert substitutions and adjoint differential equations (computer-algebraic aspects)

B. V. PAL'TSEV 875 Conditions for the convergence of iterative methods with complete splitting of the boundary conditions for the Stokes system in a circle and a ring

A. A. BYKOV, V. YU. POPOV and A. G. SVESHNIKOV 895 The use of the singular perturbations method to calculate the electromagnetic-wave-scattering operator in open periodic waveguide structures

I. A. CHEGIS 909 The problem of the eddy current distribution. Existence and uniqueness theorems and a solution algorithm

YE. D. TERENT'YEV 921 Discontinuous solutions of the viscous transonic equation

V. A. YEMELICHEV and M. K. KRAVTSOV 933 Problems of discrete vector optimization on systems of subsets which cannot be solved using a linear convolution algorithm

Short Communications

V. I. ZORKAL'TSEV 943 Algorithms of projective optimization which use the multipliers of previous iterations

P. A. KRUTITSKII 951 The limit amplitude of the initial and boundary-value problem for an equation of composite type in a multiply connected domain

S. V. YAKOVLEV 959 The theory of convex continuations of functions at the vertices of convex polygons

VOL. 34, NO. 8/9 1994

V. O. BELASH and N. YA. MAR'YASHKIN 967 The solution of linear algebraic systems by polynomial iterative methods

V. V. VOLOSHINOV, G. G. KOTKIN and A. M. TKACH 977 Approximation methods for problems of non-linear programming

I. B. STAROVEROVA 991 Well-posedness and bounds of solutions of singular Cauchy problems for systems of non-linear ordinary differential equations

A. B. VASIL'YEVA 1007 Contrasting structures in systems of singularly perturbed equations

A. S. BARASHKOV 1019 A dual asymptotic model for solving elliptic equations

V. V. VARLAMOV 1033 The asymptotic form for long times of the solution of the Boussinesq equation with dissipation

A. N. IVANOVA and B. L. TARNOPOL'SKII 1045 Effects of diffusion instability in inhomogeneous conditions

V. I. GRYN' and L. V. NITISHINSKAYA 1057 The solution of Abel's integral equation by a modified broken line of minimum length method

P. A. KRUTITSKII 1073 Dirichlet's problem for the Helmholtz equation outside cuts in a plane

A. G. KUZ'MIN 1091 Cumulative and non-linear phenomena in the local supersonic region

YE. V. BRATTSEVA and V. P. CHERENIN 1103 Methods of finding all minimum coverings of a graph by cliques

Short Communications

M. YU. IBRAGIMOV, KH. D. IKRAMOV, N. V. SAVEL'YEVA and V. N. CHUGUNOV 1119 The stabilizer of the set of asymmetric Toeplitz matrices

M. F. SUKHININ 1125 Step-by-step quadratic penalty solution of a quadratic programming problem

V. T. VOLKOV and N. N. NEFEDOV 1133 Periodic solutions with boundary layers of a singularly perturbed reaction–diffusion model

S. L. DEGTYARYEV 1141 The stability of difference schemes with variable weights for the one-dimensional heat-conduction equation

A. R. AL'SHIN and YU. D. PLETNER 1147 Explicit solution of an initial and boundary-value problem of the theory of ion-acoustic waves in a non-magnetized plasma and its asymptotic form

V. P. ZHUKOV 1155 Explicit finite-difference scheme for the magnetohydrodynamic equations taking the Hall effect into account

V. I. KOPCHENOV and D. A. NIKIFOROV 1161 An implicit iterative scheme for calculating the flows of a viscous incompressible fluid

VOL. 34, NO. 10 1994

I. M. PRUDNIKOV 1169 Differential properties of the extremum function with respect to a Lipschitzian many-valued mapping

N. B. KONYUKHOVA 1179 Stable Lyapunov manifolds for autonomous systems of non-linear ordinary differential equations

V. F. BUTUZOV and S. T. YESIMOVA 1197 A singularly perturbed "reaction–diffusion–transfer" system which degenerates into a system of two first-order differential equations

A. B. Vasil'yeva	1215	Step-like contrasting structures for a system of singularly perturbed equations
N. L. Patsko	1225	Numerical solution of elliptic boundary-value problems by the finite-element method using B-splines
A. V. Kostrov and A. M. Mardyuk	1237	A mathematical problem in missile theory
A. N. Kraiko, A. S. Telyakovskii and N. I. Tillyayeva	1251	Profiling the optimal contour of a supersonic nozzle in highly rotational flow
Yu. G. Smirnov	1265	The solvability of vector integro-differential equations for the problem of the diffraction of an electromagnetic field by screens of arbitrary shape
Yu. V. Zasorin	1277	Exact solutions of some external problems described by non-stationary viscous transonic equations
V. F. Kamenetskii and A. Yu. Semenov	1287	Self-consistent isolation of discontinuities in continuous calculations of gas-dynamic flows
V. A. Tupchiyev	1299	The convergence in weak topologies of approximate methods for an isentropic gas-dynamic system
		Short Communications
A. S. Mechenov	1313	The effect of rounding errors for systems of linear algebraic equations
A. A. Abramov	1317	A method of solving some multiparameter eigenvalue problems that arise when using Fourier's method
A. S. Dostovalova and S. T. Simakov	1321	The fundamental solution of the model equation of an incompressible stratified liquid
S. N. Shelud'ko	1327	Analytic integration of the transport equation with respect to the mean free path in a problem with a barrier geometry and an infinite plane source
V. I. Zubov and Z. G. Zuikova	1333	A class of solutions of the problem of optimizing the nozzle of a water cannon

VOL. 34, NO. 11 1994

V. P. Il'in and I. Z. Livshits	1341	A symmetrized Stone's method
A. F. Izmailov	1349	The well-posedness of non-linear operator equations
V. I. Yelkin	1363	Subsystems of control systems and control problems with equality-type constraints on the phase variables
A. G. Kremlev	1371	An iterative method of solving problems of the optimal control of singularly perturbed systems with quadratic constraints
G. Yu. Kulikov	1389	The practical implementation and efficiency of numerical methods for solving Cauchy's problem with an algebraic relation
G. I. Shishkin	1403	A grid approximation of singularly perturbed quasilinear elliptic and parabolic equations which degenerate into equations without spatial derivatives
P. A. Krutitskii	1421	Neumann's problem for the Helmholtz equation outside cuts in the plane
V. I. Gryn' and L. V. Nitishinskaya	1433	Numerical solution of the inverse problem of reconstructing the source function in a two-dimensional plane geometry
V. M. Krivtsov	1445	An approximate factorization scheme for calculating gas flows in channels
I. Yu. Babayev, V. A. Bashkin and I. V. Yegorov	1455	Numerical solution of the Navier–Stokes equations using variational iteration methods
		Short Communications
Kh. D. Ikramov	1463	Tridiagonal forms of complex symmetric and persymmetric matrices

V. I. DEVKIN 1469 A constructive iterative procedure for solving operator equations

A. V. NESTEROV 1477 The asymptotic form of the solution of an elliptic equation with a singularly perturbed boundary condition

V. I. PINCHUKOV 1483 The construction of monotone schemes of any order of approximation for one class of equation

YU. M. GRISHIN, N. P. KOZLOV and V. V. KUZENOV 1489 A modification of Glimm's method for solving the equations of gas dynamics

I. A. KOSTYLEV, G. G. MALINETSKII and A. B. POTAPOV 1493 Order parameters in a Hopfield neural network

A. A. DYNNIKOV 1501 An algorithm for improving the convergence of an iterative method of solving optimal control problems by non-linear deformation of the time axis

VOL. 34, NO. 12 1994

V. P. IL'IN, V. I. KARNACHUK and M. R. LARIN 1503 Tree organization of the data structure for Cholesky factorization

YE. B. KUZNETSOV and V. I. SHALASHILIN 1511 A parametric approximation

YA. I. RABINOVICH 1521 A hierarchical multicriteria procedure for improving a basic solution in problems of large dimensions

YU. A. KREMEN' and P. I. MONASTYRNYI 1531 Orthogonal difference pivotal condensation for two-point grid equations of general form with separate multipoint boundary conditions

G. I. SHISHKIN 1541 The method of additive separation of singularities for quasilinear singularly perturbed elliptic and parabolic equations

M. P. GALANIN 1559 Embedding theorems for the traces of grid functions in three dimensions

P. N. VABISHCHEVICH 1573 Regionally additive difference schemes with a stabilizing correction for parabolic problems

I. G. BELUKHINA 1583 The accuracy of approximations on rectangular grids in problems of the theory of elasticity with singularities

V. T. ZHUKOV, A. V. ZABRODIN and O. B. FEODORITOVA 1591 Features of the numerical simulation of the target of inertial thermonuclear synthesis in the approximation of heat conduction gas dynamics

V. S. SAKOVICH 1603 Multiple-grid solution of Euler's equations on unstructured grids

Short Communications

I. L. OSIPOV 1617 The correct solution of the problem of the numerical differentiation of functions of one or several variables

D. A. NIKIFOROV 1623 The use of the method of compact differences on spaced grids

A. A. ABRAMOV and A. A. ASLANYAN 1629 A generalization of the method for solving the eigenvalue problem for Hamiltonian systems

V. B. VASIL'YEV 1635 The Wiener–Hopf equations and the mathematical theory of diffraction

1643 Erratum

i Volume Contents/Author Index for Volume 34, 1994

Published April 1995

AUTHOR INDEX

Abramov, A. A. 671*, 1317*, 1629*
Abramov, B. D. 175
Abramov, S. A. 863
Al'shin, A. R. 1147*
Alpin, Yu. A. 665*†
Aslanyan, A. A. 1629*

Babayev, I. Yu. 1455
Bakhvalov, N. S. 333
Bakushinskii, A. B. 407*
Balashevich, N. V. 529*
Baranov, V. V. 849
Barashkov, A. S. 1019
Bashkin, V. A. 1455
Belash, V. O. 967
Belov, V. M. 679*
Belukhina, I. G. 1583
Blyumin, S. L. 133
Bogolyubskaya, A. A. 815*
Brattseva, Ye. V. 1103
Bulatov, M. V. 301
Bulychev, Yu. G. 441, 555
Butuzov, V. F. 1197
Bykov, A. A. 895

Chegis, I. A. 553, 909
Chegis Raim, Yu. 323
Cherenin, V. P. 1103
Chirikhin, A. V. 511
Chugunov, V. N. 1119*

Dar'in, N. A. 639
Davidson, M. R. 23
Degtyaryev, S. L. 1141*
Devkin, V. I. 1469*
Donskoi, V. I. 389
Dosiyev, A. A. 591
Dostovalova, A. S. 1321*
Dubrovskii, G. V. 499
Dynnikov, A. A. 1501*

Eglit, M. E. 333
Eminov, S. I. 53

Fazylov, V. R. 687*
Fedorenko, R. P. 223
Feodoritova, O. B. 1591

Gabasov, R. 529*, 569
Galaktionov, V. A. 313
Galanin, M. P. 1559
Galiyev, Sh. I. 271
Glasko, V. B. 127*, 799
Glasko, Yu. V. 127*
Golubkin, V. N. 377
Golushkov, V. G. 647
Gradoboyev, M. I. 205, 351
Grishin, Yu. M. 1489*
Gryn', V. I. 1057, 1433

Ibragimov, M. Yu. 1119*
Ikramov, H. D. 253*
Ikramov, Kh. D. 399*, 1119*, 1463*
Il'in, V. P. 1341, 1503
Ishmukhametov, A. Z. 9
Ivanova, A. N. 1045
Izmailov, A. F. 287, 723, 1349

Kalitvyanskii, V. L. 417*
Kamenetskii, V. F. 1287
Kamenev, G. K. 521
Karnachuk, V. I. 1503
Kartyshov, S. V. 703
Kashchenko, S. A. 479
Khripunov, A. P. 833
Kirillova, F. M. 529*, 569
Klyuyev, K. V. 127*
Kontorin, V. Yu. 499
Konyukhova, N. B. 1179
Kopchenov, V. I. 1161*
Kosolapov, Yu. S. 511
Kostina, Ye. A. 569
Kostrov, A. V. 1237
Kostylev, I. A. 1493*
Koterov, V. N. 243
Kotkin, G. G. 977
Kovenya, V. M. 763
Kozlov, N. P. 1489*
Kraiko, A. N. 1251
Krasnozhon, A. V. 63, 263*
Kravtsov, M. K. 933
Kremen', Yu. A. 1531
Kremlev, A. G. 1371
Krivtsov, V. M. 1445
Krutitskaya, N. Ch. 71
Krutitskii, P. A. 71, 951*, 1073, 1421
Kulikov, G. Yu. 1389
Kurochkin, S. V. 45
Kuz'micheva, N. A. 775
Kuz'min, A. G. 1091
Kuzenov, V. V. 1489*
Kuznetsov, Ye. B. 1511

Larin, M. R. 1503
Larina, I. N. 351
Latyshev, A. V. 193
Layevskii, Yu. M. 605
Lebedev, A. S. 763
Leonov, A. S. 121*
Leszczyński, H. 151
Litvinchev, I. S. 843
Livshits, I. Z. 1341
Lyul'ka, V. A. 541*, 713

Makhanov, S. S. 85
Malinetskii, G. G. 471, 1493*
Mar'yashkin, N. Ya. 967
Mardyuk, A. M. 1237
Markov, B. A. 257*
Maslovskaya, L. V. 647
Matus, P. P. 749
Mechenov, A. S. 1313*
Milovidov, S. P. 133
Moiseyev, N. N. 453
Monastyrnyi, P. I. 1531

Nedič, A. 431
Nefedov, N. N. 1133*
Negoda, V. V. 377
Nesterov, A. V. 1477*
Nikiforov, D. A. 1161*, 1623*
Nikitin, N. V. 785
Nitishinskaya, L. V. 1057, 1433

Osipenko, M. A. 127*
Osipov, I. L. 1617*
Oskolkov, I. N. 799

Pal'tsev, B. V. 875
Pashchenko, V. P. 243
Patsko, N. L. 1225
Pavlov, V. B. 535*
Pinchukov, V. I. 1483*
Piunovskii, A. B. 463
Pletner, Yu. D. 63, 263*, 1147*
Plotnikov, P. V. 97
Plotnikov, V. N. 53
Popov, V. Yu. 895
Posashkov, S. A. 313
Potapov, A. B. 471, 1493*
Poyezd, A. D. 257*
Protsenko, Ye. Yu. 511
Prudnikov, I. M. 1169
Pugachov, B. P. 405*
Puzynin, I. V. 143

Rabinovich, Ya. I. 1521
Radtsig, Yu. Yu. 53
Rodionova, O. Ye. 535*
Romanko, A. V. 713
Ryazantseva, I. P. 1
Rybal'chenko, T. A. 679*
Rykov, V. A. 205, 351

Sakovich, V. S. 1603
Savel'yeva, N. V. 1119*
Semenov, A. Yu. 85, 1287
Serdyukova, S. I. 815*
Shakhov, Ye. M. 351
Shalashilin, V. I. 1511
Shelud'ko, S. N. 1327*
Sheretov, Yu. V. 409*
Shishkin, G. I. 621, 1403, 1541

*Short Communications
†Author's name omitted from paper: appears incorrectly as M. Yu. Zhukov (translation only).

Shishkin, S. A. 267*, 549*
Shmyglevskii, Yu. D. 827*
Shurshalov, L. V. 97
Sigal, I. Kh. 33
Silin, D. B. 545*
Simakov, S. T. 1321*
Smirnov, A. P. 775
Smirnov, Yu. G. 1265
Solov'yev, M. A. 263*
Staroverova, I. B. 991
Strelkov, N. A. 165
Sukhanov, V. A. 679*
Sukhinin, M. F. 1125*
Sveshnikov, A. G. 895
Svetsov, V. V. 365

Tarnopol'skii, B. L. 1045
Telyakovskii, A. S. 1251
Terent'yev, Ye. D. 921
Tillyayeva, N. I. 1251
Tkach, A. M. 977
Tret'yakov, A. A. 287
Trin'ko, N. G. 545*
Tsertsvadze, G. Z. 471
Tsurkis, I. Ya. 421
Tupchiyev, V. A. 1299

Ushakov, V. N. 833

Vabishchevich, P. N. 1573
Varlamov, V. V. 1033
Vasil'yev, F. P. 431
Vasil'yev, V. B. 1635*
Vasil'yeva, A. B. 1007, 1215
Volkov, V. T. 1133*
Voloshinov, V. V. 977

Yakovlev, S. V. 959*
Yakunin, S. A. 257*
Yegorov, I. V. 1455
Yelkin, V. I. 1363
Yemel'yanov, K. V. 809*
Yemelichev, V. A. 933
Yemets, O. A. 737
Yesimova, S. T. 1197
Yevtushenko, Yu. G. 579
Yukhno, L. F. 671*

Zabrodin, A. V. 1591
Zasorin, Yu. V. 1277
Zhadan, V. G. 579
Zhanlav, T. 143
Zhdanov, A. I. 693
Zhuk, V. I. 107
Zhukov, M. Yu. 491, 665†
Zhukov, V. P. 1155*
Zhukov, V. T. 1591
Zorkal'tsev, V. I. 943*
Zubov, V. I. 1333*
Zuikova, Z. G. 1333*

†Name appears on paper in error: correct author Yu. A. Alpin.

Printed and bound in Great Britain by BPC Wheatons Ltd, Exeter